

**Air Pollution Control District
Jefferson County, Ky
13 December 1999**

TITLE V PERMIT SUMMARY

Company: Louisville Gas and Electric, Paddy's Run Station

Address: West end of Bells Lane, Louisville, Kentucky 40211

Date Received: 22 April, 1997

Date Admin Complete: 14 May, 1997

Date of Draft Permit: 17 October, 1999

Date of Proposed Permit: 17 October, 1999

District Engineer: Daphne C. Wilson

SIC Code: 4911

NAICS: 221112

EIS#: 0125

Permit #: 130-97-TV

Introduction:

This permit is to be issued according to: (1) District Regulation 2.16, (2) Title 40 of the Code of Federal Regulations Part 70, and (3) Title V of the Clean Air Act Amendments of 1990. Its purpose is to identify and consolidate existing District and Federal air requirements applicable to Louisville Gas and Electric, Paddy's Run Station and to provide practical methods of determining continued compliance with these requirements. Louisville Gas and Electric, Paddy's Run Station generates electricity during peak demand periods.

Jefferson County is classified as of the date above as an attainment area for lead (Pb), sulfur dioxide (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), particulate matter (PM), and particulate matter less than 10 microns (PM₁₀); unclassifiable for particulate matter less than 2.5 microns (PM_{2.5}); and is a moderate non-attainment area for ozone.

Application Type/Permit Activity:

- ☒ Initial Issuance
- ☐ Permit Revision
 - ☐ Administrative
 - ☐ Minor
 - ☐ Significant
- ☐ Permit Renewal

Compliance Summary:

[X] Compliance certification signed [] Compliance schedule included
[] Source is out of compliance

I. Source Description

1. **Class I Area Impacts:** This plant is not located in or near a Class I area.
2. **Product Description:** Electric energy generation
3. **Overall Process Description:** Two natural gas fired turbines that produce electricity during peak periods.
4. **Site Determination:** There are no other facilities which are contiguous or adjacent and under common control.
5. **Emission Unit Summary:**

U1 - two generators (emission points E11 & E12) with:
 - A. E11 rated output capacity of 19,500 kW (company equipment designation GT11).
 - B. E12 rated output capacity of 29,000 kW (company equipment designation GT12).
6. **Fugitive Sources:** None
7. **Title V Major Source Status by Pollutant:**

Pollutant	Actual Emissions (tpy) 1998 Data	Major Source Status
CO	N/A	No
NO _x	31.09	Yes
SO ₂	Negligible	No
PM	Negligible	No
VOC	5.03	No
Single HAP >1 tpy	Negligible	No
Total HAPs	Negligible	No

8. **MACT Standards:** None applicable

9. **Applicable Requirements:**

<input type="checkbox"/> PSD	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP	<input type="checkbox"/> MACT
<input type="checkbox"/> NSR	<input type="checkbox"/> NESHAPS	<input checked="" type="checkbox"/> District-Origin	<input type="checkbox"/> Other

II. **Regulatory Analysis**

1. **Emission and Operating Caps:** LG&E has agreed to limit NO_x emissions to less than 100 tons per year
2. **Compliance Status:** The company signed and submitted a compliance certification in its Title V permit application.
3. **Operational Flexibility:** No alternative scenarios were requested by the company.
4. **Testing Requirements:** None
5. **Monitoring, Recordkeeping and Reporting Requirements:** Monitoring, recordkeeping, and reporting are specified in the permit
6. **Periodic Monitoring:** The fuel usage is monitored monthly in order to demonstrate ongoing compliance with the NO_x limit.
7. **Off Permit Documents**

The District considers an “off-permit document” as a document on which a source’s compliance with given regulation(s) is contingent or which contains regulatory requirement(s), but is only referenced in a source’s Title V Operating Permit. The designation “off-permit document” shall be made at the District’s discretion, and may include, but not be limited to, documents such as Regulation 1.05 VOC compliance plans, Preventative Maintenance Program (PMP), Management Of Change System (MOCS); or other documents which are too voluminous to place in the permit.

There are no off permit documents associated with this permit.

III. **Other Requirements**

1. **Temporary Sources:** None

2. **Short Term Activities:** None
3. **Compliance Schedule/Progress Reports:** None
4. **Emissions Trading:** None
5. **Acid Rain Requirements:** Not applicable
6. **Prevention of Accidental Releases 112(r):** The source does not manufacture, process, use, store, or otherwise handle one or more of the regulated substances listed in 40 CFR Part 68 Subpart F and District Regulation 5.15 in a quantity in excess of the corresponding specified threshold amount.
7. **Stratospheric Ozone Protection Requirements:** Title VI of the CAAA regulates ozone depleting substances and requires a phase out of their use. This rule applies to any facility that manufactures, sells, distributes, or otherwise uses any of the listed chemicals. LG&E Paddys Run does not use any of the listed chemicals.
8. **Insignificant Activities:**

Description	Basis	Quantity
Internal Combustion Engines	Reg 2.02, sec 2.2	Various
Brazing, Soldering or Welding Equipment	Reg 2.02, sec 2.3.4	Various
Emergency Relief Vents	Reg 2.02, sec 2.3.10	Various
Fuel Oil Storage Tanks	Reg 2.02, sec 2.3.9.2	2
House Heating Boiler	Reg 2.02, sec 2.1.1	1